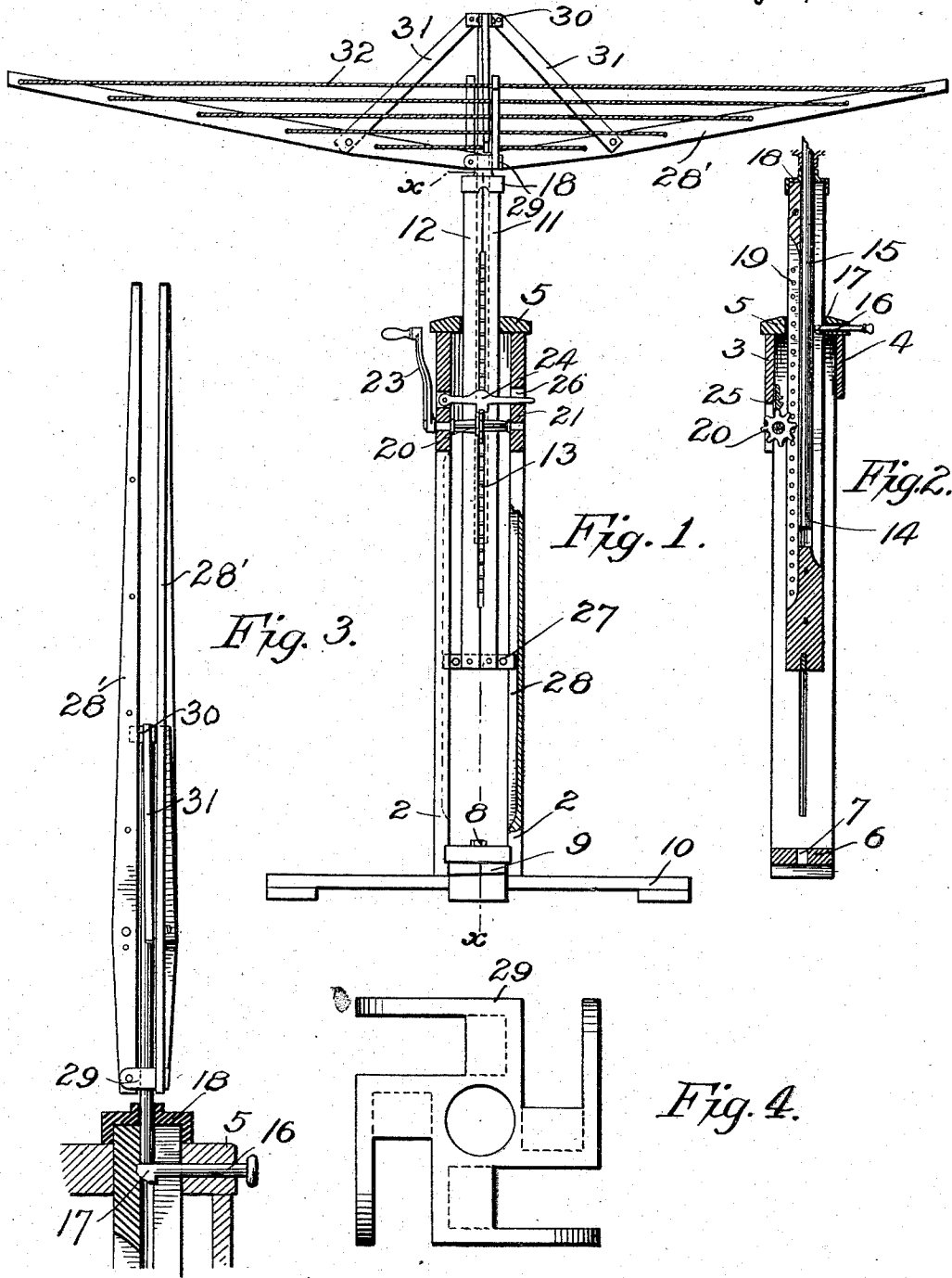


(No Model.)

M. C. BURR.
CLOTHES DRIER.

No. 542,040.

Patented July 2, 1895.



Witnesses

E. C. Purple
F. J. Lyon

Inventor

Melbourne C. Burr.

By Paul & Mowley attys

UNITED STATES PATENT OFFICE.

MELBOURNE C. BURR, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO
WERNICKE CO., OF SAME PLACE.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 542,040, dated July 2, 1895.

Application filed July 17, 1893. Serial No. 480,777. (No model.)

To all whom it may concern:

Be it known that I, MELBOURNE C. BURR, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Collapsible Clothes-Reels, of which the following is a specification.

My invention relates to a clothes-reel adapted to be elevated after the clothes have been placed upon the distended ropes thereof.

The object of the invention is to provide a folding and elevating clothes-reel of a very cheap and durable construction and which may be operated with far greater ease than those which have been hitherto devised.

To this end my invention consists in constructions and combinations hereinafter described and particularly pointed out in the claim, and will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a vertical elevation showing a clothes-reel embodying my invention, the same being partially elevated and portions of the post or standard being shown in section. Fig. 2 is a sectional view on the line *xx* of Fig. 1. Fig. 3 is an enlarged view showing the reel proper collapsed. Fig. 4 is an enlarged view showing the casting employed at the upper end of the reel shaft.

As shown in the drawings, the square standard or post is made up of the side pieces 2, secured at the top by the cross-boards 3 and 4 and the wooden cap-piece 5. The lower ends of the parts 2 are connected by the block 6, having the hole 7 for a bolt 8, adapted to fasten the cross-planks 9 and 10, or the bolt may be driven into the top of a post placed in the ground. The cap-piece 5 has a square hole to accommodate the square elevating-bar made up of the two pieces 11 and 12, nailed together. A long slot 13 is made between the two pieces of the bar and each has a recess 14 to form a socket for the vertical shaft 15. One side of the slot is open to the top of the bar and permits the insertion of the pin 16, having the wing 17, which prevents the removal of the key after it is placed in position and the iron cap 18, secured upon the top of the bar. A number of wire nails 19 are driven through from side to side of the bar

and across the slot 13 and, being placed at regular distances, form a rack to be engaged by the round toothed pinion 20. This pinion is secured upon the winged shaft 21, the ends of which have bearings in slots provided in the pieces 2 and are fastened therein by the board 3. The shaft is provided with the crank 23, by turning which the bar may be raised or lowered.

24 represents a ratchet-pawl having the curved side 25, which permits the pinion to turn in one direction. The ratchet-pawl is pivoted in one side 2 and extends through a slot 26 in the other side and into position to be raised when it is desired to free the pinion and drop the bar. The lower end of the bar is provided with an iron cross-piece 27, the ends of which extend into the vertical slots 28, provided in the inner sides of the planks or sides 2.

The reel or clothes-rack proper consists of a number of long arms 28', having their inner ends pivoted in a spider-block 29, slidably arranged upon the shaft 15. The form of this block is shown best in Fig. 4, where it will be seen that the slots therein are formed integrally, so that the bars present their sides to the shaft when in position of Fig. 3. Upon the upper end of the shaft 15 I fasten a similar spider-block or casting 30, from which supporting-links 31 extend to pivotal connections on the arms 28'. The arms 28' have a number of holes, through which the ropes or cords 32 are threaded and supported. The shaft 15 being inserted in the top of the bar the weight of the arms 28 will cause them to fall out and the reel will be supported by the block 29, resting upon the cap 18 of the bar. The bar and reel may be lowered to facilitate the placing of the clothes upon the line, after which the bar may be raised to elevate the reel and carry the clothes above possible contact with the ground. To remove the reel proper, it is only necessary to push the pin 16 in under the end of the shaft after the bar has been raised to the full height and then lower the bar 11, as shown in Fig. 3, the shaft being held up. Then by drawing down upon the block 29 the arms may be thrown up and the whole reel lifted out of the socket in the bar 11.

By the employment of the loose block 29 the ropes 32 may expand or contract without breaking the arms 28', as the block 29 will simply shift its position upon the shaft.

5 Having thus described my invention, I claim as new and desire to secure by Letters Patent—

10 The combination, with a clothes reel, of a post, a rack bar arranged therein, a gear and crank for raising or lowering said rack bar, said rack bar being provided with a vertical shaft socket, a shaft, the arms upon the upper end thereof, said bar having a vertical slot

opening into said socket, a pin adapted to be inserted through the top of said post into 15 said socket beneath the shaft, whereby when the rack is lowered the shaft will remain stationary and together with the reel arms be easily removed, substantially as described.

In testimony whereof I have hereunto set 20 my hand this 20th day of June, 1893.

MELBOURNE C. BURR.

In presence of—

C. G. HAWLEY,
M. E. GOOLEY.